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(21) Application number: **10369517**(71) Applicant: **SANETSU:KK**(22) Date of filing: **25.12.98**(72) Inventor: **HOTSUTA SHIGEO****(54) STAINLESS STEEL PIPE AND ITS PROCESSING METHOD****(57) Abstract:**

PROBLEM TO BE SOLVED: To reduce a number of winding points at a piping work by applying a bending processing to a linear shape steel pipe at a normal temperature, while molding a flange part at an end part of the steel pipe with plastic deformation, so that a curving radius at a right angle bent part is processed to be almost the same as a pipe inner diameter.

SOLUTION: For molding a flange part, a pipe end part is heated. Then, a pillar element is abutted to an inner face of the pipe end part and rotated while changing its position. Under a bending processing method, a core bar 72 comprising plural ball elements which are connected in series is pushed into an inside of a stainless steel pipe 2 and a bend processing is applied. A portion far ahead from a curved portion 80 of the stainless steel pipe 2 is nipped with a pressure holder 66 and a bending die 56 and, the core bar 72 is pushed into an inner part of the pipe 2. The core bar 72 is formed with ball elements 74-76, which are slightly smaller than the

inner diameter of the pipe 2, in a manner that they are linked displaceable. A slide holder 68 is pushed out forward and the pipe 2 is bent along an outer peripheral face of the bending die 56.

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